

March 13, 2018

Joseph F. McDonough, P.E. Director of Facilities Maintenance Department Town of Wellesley 888 Worcester Street, Suite 370 Wellesley, Massachusetts 02482

Re: St Paul School Swing Space Study

Final Letter Report

SMMA No. 14015.05

Dear Joe:

After our tour of the St. Paul School and Parish Center on February 8, 2018, SMMA has prepared this letter report to document discussions, decisions and observations from the day of the tour. This report further serves the purpose of presenting preliminary cost information for the repair or renovation of the existing buildings for use as potential swing space for students (grades K-5) from the Hardy, Hunnewell, and Upham Schools.

The scope of our work includes the visual assessment of the existing school and Parish Hall buildings, using existing blue prints to prepare hand sketches as needed for the development of a preliminary construction cost estimate based on professional judgment and experience.

The criteria set forth by the Town was to make the existing school useable for WPS students for up to an 8 year period starting in 2021 and to confirm how many K-5 students from HHU schools can be reasonably accommodated in the two St Paul's buildings.

Included with this report are the following attachments:

- Preliminary Project Cost Estimate, dated March 13, 2018
- Concept Design Estimate, dated March 5, 2018
- Swing Space Analysis, completed by FMD, dated February 2018 v.3
- Photographs of original School Building blueprints, date unknown

ENROLLMENT

The preliminary study indicates that 12 classrooms can be reasonably accommodated within the existing classroom facility (see attached plans) creating a two section school (two classrooms per grade grades K through 5). The Hunnewell and Upham Schools are currently two-section schools with October 2017 enrollments of 248 and 236 students respectively – the average grade level size for Hunnewell is 41.5 students in grades 1-5 or roughly 21 students per classroom and 20 in each Kindergarten classroom. At Upham, a slightly smaller school, the average is 39.8 or 40 students per grade, 20 per classroom grades 1-5 and 19 per Kindergarten classroom. Based on current enrollment projections and class sizes, the St Paul classroom building can reasonably support a population of up to 280 students – particularly given the support spaces available in the facility's two buildings. Note that the Hardy school's 2017-18 population is 295, slightly higher than the ideal Wellesley Public Schools class size prorated at the St. Paul's facility.

SITE VISIT

Representatives from the Town Facilities Department, the Parish, the School District, the Design Consultant and the Cost Estimating Consultant walked through both school buildings to review the condition of the facilities, discuss the approach to the repair or renovations, and to review the use and layout of spaces. A consensus was reached early on during the site visit that there would be a three-tiered approach to estimating the scope: Repair, Minor Renovation and Major Renovation.

SUMMARY OF RECOMMENDATIONS

The following sections start with a description of the space reconfigurations and uses, and then describe some of the nuances in each of the repair, minor renovation and major renovation cost groups.

Building Program and Space Planning

The Town's Facilities Department prepared an initial layout of spaces prior to the site visit, for the team's consideration during the walk-through. Through design team, School District and Town discussion as existing conditions were observed, the space layout was modified. At the conclusion of the site visit, the School District had a few open items they wanted to discuss with their staff and educators, and had an independent, follow-up site visit. After the two site visits, the final space layout included with this report was arrived at for use as a basis of the swing space analysis.

The program for the buildings would be comprised of twelve K through 5th grade classrooms (two classrooms per grade), a music room, library, speech, psychology, support and administrative spaces, and a gymnasium. The swing space was planned for a 220 student capacity in two buildings.

The intent behind the configuration of spaces was to make the existing school building into the classroom building with a centrally located administration, staff and nurse area on the 2nd floor. Speech, psychology and student support spaces would also be housed in this building for ease of access by teachers, administrators and students. The Parish Hall building would house the gym (existing), cafeteria, library and music rooms.

SCHOOL BUILDING - OPTION 1: REPAIRS

Summary: The Option 1 cost group is intended to capture the most limited building upgrades possible. All minimum code requirements would be met in this scenario with the exception of a certain, limited number of items that would need to be brought to the attention of the local Authority Having Jurisdiction (AHJ) for approval or waiver.

Accessibility (incl. door hardware) and Egress: In this scenario, the building would receive a new elevator and elevator lobby with access to all floors, the egress stairs would be made code compliant by establishing a 1-hour rated stairwell which can only be accessed from the corridor and by replacing the existing hand-/guardrails. All door hardware would be replaced.

Toilet Rooms: Existing toilet rooms would be updated to comply with Accessibility regulations and plumbing code. One new single-user toilet room would be added in the administrative area. Consistent with the mechanical section of this option, the existing toilet room unit ventilators would remain as-is.

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Fire Protection and Alarm: Fire protection upgrades would include a new sprinkler system, emergency and exit lighting, fire alarm and control panel. Security upgrades would also be included.

Roofing: Per the Town of Wellesley's Facility Department, the roof is beyond its useful life and is to be replaced in this and all other scenarios.

Interior Finishes and Asbestos Containing Material (ACM) Abatement: The flooring and ceilings would remain as is (no abatement) with the exception of an allowance of 100 SF of abatement and new floor tile for areas that are damaged and friable.

Program Changes: Student lockers will be provided throughout the school, the blackboards will be overlaid with whiteboards, the ACM piping would be concealed by providing a new soffit, and new classrooms and support spaces would be established in the lower level either through new construction or conversion efforts. This work is included in all scenarios.

Mechanical Systems: The repair only solution strictly includes replacing the roof vents/fans. The existing boiler (in good condition) would remain as well as all existing unit ventilators.

Electrical Systems: Upgrades are limited to the inclusion of new public address (PA), master clock, and telephone and data systems. These upgrades apply to all scenarios.

Potential waiver requests: Items not included that would necessitate AHJ approval include, (1) doing no work to the existing stair nosings, (2) replacing the existing non-compliant drinking fountains with vendor-provided bubblers and (3) approval to continue using the existing boiler room metal stair for access and exit.

SCHOOL BUILDING - OPTION 2: MINOR RENOVATIONS

Summary: The Option 2 cost group or scenario is intended to capture the aforementioned building upgrades, to require only one waiver approval by the AHJ, and to include additional minor upgrades that exceed minimum requirements.

Accessibility (incl. door hardware) and Egress: This scope is identical to the scope included in the Option 1: Repair scenario. Additionally, the stair treads/nosings would be made code compliant by installing a strip on the underside of the nosing and the existing metal stair in the lower level boiler room would be replaced with a new code compliant stair.

Toilet Rooms: Existing toilet rooms would be updated to comply with MAAB accessibility regulations and plumbing code. Two new single-user toilet rooms would be added—one in the administrative area on the First Floor and one in the existing storage room on the Second Floor. Consistent with the mechanical scope of this option, the existing toilet room unit ventilators would be refurbished and retrocommissioned.

Fire Protection and Alarm: This scope is identical to Option 1: Repair scenario.

Roofing: This scope is identical to Option 1: Repair scenario. (The roof requires replacement.)

Interior Finishes and Asbestos Containing Material (ACM) Abatement: The ceilings would remain as is (no abatement) but the ACM floor tile would be covered, excluding corridors, stairs and bathrooms.

Program Changes: This scope is identical to Option 1: Repair scenario.

Mechanical Systems: This scenario includes leaving the existing boiler (in good condition) as-is, adding a second boiler for redundancy and reconditioning and retrocommissioning the existing unit ventilators throughout the building.

Electrical Systems: Upgrades include a new public address (PA), master clock, and telephone and data systems. Additionally, this option includes the upgrade of the existing switchgear, power, branch and distribution systems.

Potential waiver requests: This option strictly requires the AHJ to approve use of a vendor-provided bubbler in lieu of a built-in accessible drinking fountain.

SCHOOL BUILDING - OPTION 3: MAJOR RENOVATIONS

Summary: The Option 3 cost group or scenario is intended to capture the aforementioned building upgrades, to not require any waiver approvals by the AHJ, and to include additional major upgrades including full floor and ceiling ACM abatement measures.

Accessibility (incl. door hardware) and Egress: This scope is identical to the scope included in the Option 2 Minor Renovation scenario.

Toilet Rooms: Existing toilet rooms would be updated to comply with Accessibility regulations and plumbing code. Two new single-user toilet rooms would be added—one in the administrative area on the First Floor and one in the existing storage room on the Second Floor. Additionally, the existing toilet room in the former egress hall, adjacent to the Kindergarten room would be upgraded for student or adult use (to be decided at a later date). Consistent with the mechanical scope of this option, the existing toilet room unit ventilators would be replaced.

Fire Protection and Alarm: This scope is identical to the scope included in the Options 1 and 2 Repair and Minor Renovation scenarios.

Roofing: This scope is identical to the scope included in the Options 1 and 2 Repair and Minor Renovation scenarios.

Interior Finishes and Asbestos Containing Material (ACM) Abatement: The existing flooring and ceilings would be abated and replaced with new acoustical ceiling tile (ACT) and vinyl composition tile (VCT) flooring.

Program Changes: Student lockers will be provided throughout the school, the blackboards will be overlaid with whiteboards, the ACM piping would be concealed by providing a new soffit, and new classrooms and support spaces would be established in the lower level either through new construction or conversion efforts. This work is included in all scenarios.

Mechanical Systems: This scenario includes replacing the existing boiler (in good condition), adding a second boiler for redundancy and replacing the existing unit

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ventilators throughout the building. This option also includes the replacement of the existing compressor located in the boiler room.

Electrical Systems: This option includes all work outlined in Option 2 in addition to the replacement of lighting and controls throughout the building.

Potential waiver requests: Not applicable.

PARISH HALL - ALL WORK

The Parish Hall work was developed without three-tiered options due to the newer condition of the existing building, the limited amount of renovation required and the absence of ACM and code compliance issues.

In summary, the work at the Parish Hall consists of making the building accessible by adding a new ramp with switchback at the main entrance, adding a platform lift with enclosure to access the lower level, and replacing door hardware on existing toilet rooms and back-of-house rooms. The toilet rooms would be upgraded to meeting accessibility and plumbing code regulations. The Lower Level rooms would be reconfigured to house the music room, library and cafeteria. Lighting would be reconfigured as needed to support new room layout.

TIMELINE

The following timeline was provided by the Town for planning purposes and to inform the escalation rate applied to the cost estimate.

Feasibility Start July 1, 2018

Design & permitting Start January 1, 2019

Bids-in-Hand March 1, 2020

Construction Complete May 1, 2021

PRELIMINARY COST ESTIMATE

The construction cost estimate for the repair or renovation of the buildings was kept separate by building so that code implications could be evaluated on a *by building* basis. An overview of the costs are provided here. The detailed estimate can be found in the enclosure.

Although the cost categories are broken up into Repair, Minor Renovation and Major Renovation, it is at the Client's discretion to change the work in each category.

School Building

	Option 1: Repair	Option 2: Minor Renovation	Option 3: Major Renovation
ADA/Life Safety			,
Code Compliance	\$1,537,450	\$1,609,950	\$1,888,263
Roofing	\$176,250	\$176,250	\$176,250
Interior			
Construction	\$209,750	\$348,538	\$449,698
Mechanical and			
Electrical Services	\$108,405	\$579,898	\$849,698
Contingency and			
Markups	\$678,000	\$831,000	\$980,000
Escalation	\$245,000	\$323,000	\$396,000
Total	\$2,927,855	\$3.868.635	\$4,739,425

Parish Hall

	All work
Main Entry	\$22,500
Egress Stairs	\$62,625
Door Hardware	\$13,500
Toilet Rooms	\$51,550
Program Changes	\$60,000
Contingency and	
Markups	\$90,000
Escalation	\$28,000
Total	\$328,175

SMMA developed a preliminary total project cost sheet with the Town of Wellesley Facilities Department that captures additional "soft costs" the Town should budget to execute this project. The total project cost to be budgeted for each Option is as follows:

Option 1 School Building, incl. Parish Hall scope: \$4,760,588
 Option 2 School Building, incl. Parish Hall scope: \$6,215,127
 Option 3 School Building, incl. Parish Hall scope: \$7,260,075

See Preliminary Total Project Cost sheet in enclosure for detailed breakdown of soft costs.

ASSESSED VALUES (2018)

The following 2018 assessed values were provided by the Town and are instrumental in determining the extent of the code compliance measures that must be implemented in the case of a building renovation. The key threshold is 30% of the assessed value:

School: \$5,376,500 30% of Assessed Value = \$1,612,950 Parish Hall: \$1,978,000 30% of Assessed Value = \$593,400

PRELIMINARY CODE CONSIDERATIONS

The major code considerations that must be considered during a renovation are (1) the requirement to bring the entire building into full MAAB accessibility compliance should the cost of the work exceed 30% of the building's full and fair cash value per 521 CMR and (2) the requirement to provide a new sprinkler system throughout the building when total floor area of the building (and its addition) exceeds 7,500 GSF or renovation costs exceed 33% of the assessed building value per M.G.L Chapter 148 Section 26G.

School Building

Due to the cost and square-footage of the renovation, the entire building must comply with 521 CMR and a sprinkler system must be installed.

Parish Hall

Accessibility: Due to the cost of the renovation exceeding \$100,000 but not exceeding the full and fair cash value of the building, the work being performed is required comply with 521 CMR and an accessible public entrance, accessible toilet room, telephone and drinking fountain shall also be provided.

Fire Protection: M.G.L. Chapter 148 Section 26G stipulates that "[e]very building or structure, including any additions or major alterations(*) thereto, which totals, in the aggregate, more than 7,500 gross square feet in floor area shall be protected throughout with an adequate system of automatic sprinklers in accordance with the provisions of the state building code." It is recommended that the exact squarefootage of the existing building be obtained, as it is currently estimated at 8,000 GSF. Should it in fact exceed 7,500 GSF, the local Fire Department may enforce this law.

(*) Major alterations are interpreted as any alteration work that exceeds 33% of the assessed building value or 33% of the gross building square-footage. The work in the Parish hall does not currently exceed the 33% assessed value threshold, however, it can be assumed that the work does exceed the 33% gross building square-footage threshold--being that the scope includes one of two floors of the Parish Hall (est. 4,000 GSF each).

It is recommended that the exact square-footage of the existing building be determined to validate these assumptions and that the head of the Fire Department be consulted for their interpretation. Currently, the Parish Hall estimate does not include new sprinkler system. Assume an additional \$55,000 in construction cost should a sprinkler system be required.

Very truly yours,

SMMA

Kristen Olsen, AIA Project Manager

cc: Kevin Kennedy, Dr. David Lussier, Alex Pitkin (MF)

Preliminary Project Budget

St. Paul's Classroom and Parish Building Renovations Wellesley, MA Grades K-5 - 220 Students Estimated Construction Cost		SF (Classroom Bldg SF (Parish Bldg - Bs	
Option 1) Classroom Building Repairs Option 2) Classroom Building Minor Renovation Option 3) Classroom Building Major Renovation 4) Parish Hall Renovation	\$2,927,855 \$3,868,635 \$4,739,425 \$328,175	\$3,256,030	Opt 1+4
		\$4,196,810 \$5,067,600	Opt 2+4
Estimated Costs for Furnishings and Equipment	#004.000		
a.) Educational Furnishings and Equipment (FFE) b.) Technology Equipment (equipment)	\$264,000 \$264,000		
c.) Library Books - (reuse existing)	\$0		
		\$528,000	
Architects/Engineers Fee			
a). Basic Services Fee to be included in Lump Sum Fee	\$325,603	•	10.0% fee
	\$419,681	•	
b). Additional Services to be included in Lump Sum Fee	\$506,760	Opt 3+4	
Food Service Consultancy	\$0		
Acoustics and Sound System Consultancy	\$0		
Code Consultancy	\$10,000	use Town vendor	
Security Consultancy Detailed Cost Estimating	\$15.000	use rown vendor	
Hardware Consultancy	\$12,000		
Local Site Permitting	\$75,000		
Sustainable Design Consultancy FFE Consultancy	\$0 \$5,000		
Educational Technology Consultancy	\$5,000 \$5,000		
Documentation of Existing Building	\$0		
Subtotal (b. only	\$122,000		
		\$447,603 \$544,694	•
Total Lump Sum Fee	9	\$541,681 \$628,760	•
Additional Services		4 -2-5,	
Topographic Survey and Utilities Research	\$8,000		
Geotechnical Consultancy Geoenvironmental Consultancy	\$0 \$0		
Traffic Consultancy	\$12,000		
Hydrant Flow test	\$0		
State and Federal Site Permitting	\$0		
Hazardous Material Consultancy	\$20,000		
Subtota	al	\$40,000	
Miscellaneous Projects Costs and Expenses	A480.000		
a.) Clerk of Works - Full Time Clerk for 12 months b.) OPM (incl. Commissioning Agent) - 12 hrs/wk	\$153,600 \$122,800		
c.) Legal counsel	\$10,000		
d.) Advertising expenses	\$5,000		
e.) Moving expense (incl. removal of St Paul's & reuse of some existing WPS furniture	\$25,000		
f.) Storage g.) Printing of bid and construction documents	\$0 \$10,000		
h.) Structural Peer Review	\$10,000		
i.) LEED Fees	\$0		
j.) Construction testing	\$20,000		
k.) Utility Backcharges I.) Owner Contingency 10% of estimated soft costs	\$0 \$132,555		
Subtota		\$488,955	
Bidding and Construction Contingency		****	
a.) Construction Contingency 10% of estimated construction cost b.) Construction Contingency 10% of estimated construction cost		\$162,802 \$419,681	•
c.) Construction Contingency 10% of estimated construction cost		\$506,760	•
TOTAL ESTIMATED PROJECT COST		\$4,760,588	•
		\$6,215,127	
		\$7,260,075	Opt 3+4

SMMA 3/13/2018



Wellesley School District St. Paul's School and Parish Hall Wellesley, MA

March 5, 2018

Concept Design Estimate

Architect:

SMMA 1000 Massachusetts Ave Cambridge, MA 02138 (800) 487 4894 **Cost Estimator:**

Daedalus Projects Incorporated 1 Faneuil Hall Marketplace South Market Bldg., Suite 4195 Boston, MA 02109 (617) 451 2717

INTRODUCTION

Project Description:

Analysis and comparison of Re-Use Feasibility Study Options for K-5th grade school program

Option 1. Repairs: limited repair/replacement

Option 2. Minor Renovation: moderate repair/replacement

Option 3. Major Renovation: major repair/replacement

Work identified in Repair column assumes approval of limited code compliance variances by building official

Buildings considered as two separate Projects

School Building

Parish Hall

Project Particulars:

Documents received from SMMA and Town of Wellesley

Swing Space Analysis Wellesley FMD - February 2018 v.3

Photographs of School Building Floor Plan Blueprints

AHERA Report dated September 10, 2013 prepared by Covino Environmental Associates, Inc.

Daedalus Projects, Inc. site visit Februarys 8, 2018

Detailed quantity takeoff from these resources where possible

Daedalus Projects, Inc. experience with similar projects of this nature

Discussion and review with SMMA and their Design Team

Project Assumptions:

The project will be publicly bid amongst General Contractors

It has been assumed that no less than 4 bids will be received. Bids can be expected to be significantly higher if fewer bids are received

Both School Building and Parish Hall will be unoccupied during construction

Site and adjacent building(s) will be occupied during entire construction period

Unit rates are escalated to mid-point of construction duration and utilizing open shop labor rates

Operation during normal business hours

Lay-down/storage area, jobsite shed and trailers, and construction site entrance will be located adjacent to Project area

Temporary electrical and water site utility connections will be available. General Conditions value includes utility connections and consumption costs

Noise and vibration disturbances are anticipated and will be minimized or avoided during normal business hours

Subcontractor's markups have been included in each unit rate. Markups cover the cost of field overhead, home office, and Subcontractor's profit

Design and Pricing Contingency markup is an allowance for unforeseen design issues, design detail development and specification clarifications

General Conditions covers supervision, general facilities to support Project, and site office overheads that are not attributable to the direct trade costs

Project Requirements value covers scaffolding, staging and access, temporary protection, and cleaning

Fee markup is calculated on a percentage of direct construction costs

Start of new construction is assumed March 1, 2020 for construction duration of 14 months and completion May 1, 2021

Escalation at a rate of 4% per year has been calculated from now to the start of construction, and carried in the Main Summary



INTRODUCTION

Construction Cost Estimate Exclusions:

Salvage of equipment and moveable furnishing items

Building Permit

Escalation from now to start of construction

Work beyond the boundary of the site

Site or existing condition surveys and investigations

Architectural/Engineering; Designer and other Professional fees, testing, printing, surveying

Owner's administration; legal fees, advertising, permitting, Owner's insurance, administration, interest expense

Owner's site representation and project administration

Project costs; utility company back charges prior to construction, construction of swing space and temporary facilities, program related phasing, relocation

Owner furnished and installed products; computer networking, desks, chairs, furnishings, equipment, artwork, loose case goods and other similar items

Third Party testing and commissioning

Police details and street/sidewalk permits



SCHOOL BUILDING MAIN SUMMARY

ELEMENT		Repairs	M	inor Renovation	1	Major Renovatio
SCHOOL BUILDING	1					
Direct Trade Cost Details						
ADA / Life Safety Code Compliance		\$1,537,450		\$1,609,950		\$1,888,263
Roofing		\$176,250		\$176,250		\$176,250
Interior Construction		\$209,750		\$348,538		\$449,215
Mechanical And Electrical Services		\$108,405		\$579,898		\$849,698
Direct Trade Cost Sub Total		\$2,031,855		\$2,714,635		\$3,363,425
Design and Pricing Contingency	15%	\$305,000	15%	\$408,000	15%	\$505,000
Direct Trade Cost Total		\$2,336,855		\$3,122,635		\$3,868,425
General Conditions, Project Requirements	11%	\$258,000	10%	\$313,000	9%	\$349,000
Fee	3.75%	\$88,000	3.50%	\$110,000	3.25%	\$126,000
Estimated Construction Cost Total		\$2,682,855		\$3,545,635		\$4,343,425
Escalation from now to start of construction	9%	\$245,000	9%	\$323,000	9%	\$396,000
School Building Estimated Construction Cost at Bid Date		\$2,927,855		\$3,868,635		\$4,739,42



SCHOOL BUILDING DIRECT TRADE COST SUMMARY

Wellesley School District St Paul's School Building

ELEMENT	Repairs	Minor Renovation	Major Renovation
New Elevator and Vestibule	\$521,025	\$521,025	\$521,02
Egress Stairs	\$222,600	\$262,200	\$262,20
Door Hardware	\$27,800	\$27,800	\$27,80
Toilet Rooms	\$497,580	\$530,480	\$586,5
Fire Protection	\$159,138	\$159,138	\$351,2
Plumbing	\$2,850	\$2,850	\$33,0
Low Voltage Electrical Systems	\$106,458	\$106,458	\$106,4
ADA / LIFE SAFTEY CODE COMPLIANCE	\$1,537,450	\$1,609,950	\$1,888,2
Roofing	\$176,250	\$176,250	\$176,2
ROOFING	\$176,250	\$176,250	\$176,2
Flooring, Floor Finishes	\$3,500	\$140,288	\$240,9
Program Changes	\$206,250	\$208,250	\$208,2
INTERIOR CONSTRUCTION	\$209,750	\$348,538	\$449,2
Mechanical System	\$21,000	\$108,550	\$221,6
Electrical System	\$87,405	\$471,348	\$628,0
MECHANICAL AND ELECTRICAL SERVICES	\$108,405	\$579,898	\$849,6
Direct Trade Cost SubTotal	\$2,031,855	\$2,714,635	\$3,363,4

SCHOOL BUILDING DIRECT TRADE COST DETAILS

				Re	epairs	Minor Re	enovation	Maior Re	novation
	ELEMENT	UNIT	UNIT RATE	Quantity	Cost	Quantity	Cost	Quantity	Cost
					•				
9	Total GSF			21,950	GSF				
10	Existing Building			20,950	GSF				
11	New Elevator and Vestibule Addition			1,000	GSF				
12 13	ADA / LIFE SAFTEY CODE COMPLIANCE								
14	ADA / Ell E SAI TET CODE COMPEIANCE								
	New Elevator and Vestibule								
16	Concrete foundations, slab on grade	GSF	\$50.00	250	\$12,500	250	\$12,500	250	\$12,500
17	elevator pit, misc. metals	LS	\$15,000.00	1	\$15,000	1	\$15,000	1	\$15,000
18	Glazed/opaque exterior façade	SF	\$110.00	1,715	\$188,650	1,715	\$188,650	1,715	\$188,650
19	cut new opening in former exterior façade, patch and match	LOC	\$10,000.00	3	\$30,000	3	\$30,000	3	\$30,000
20	shaftwall, partitions, doors	SF	\$25.00	1,715	\$42,875	1,715	\$42,875	1,715	\$42,875
21	Flat membrane roofing, elevator vent	GSF	\$30.00	250	\$7,500	250	\$7,500	250	\$7,500
22	Flooring, ceiling finishes	GSF	\$12.50	1,000	\$12,500	1,000	\$12,500	1,000	\$12,500
	Elevator; MRL, passenger, 4-stop, 2-opening cab	LS	\$165,000.00	1	\$165,000	1	\$165,000	1	\$165,000
24	MEP&FP	GSF	\$20.00	1,000	\$20,000	1,000	\$20,000	1,000	\$20,000
25	relocate under-window unit ventilator	UNIT	\$9,000.00	3	\$27,000	3	\$27,000	3	\$27,000
26	New Elevator And Vestibule Total				\$521,025		\$521,025		\$521,025
27									
28	•		ФО 000 00		# 00.000		# 00.000		# 00 000
29	3 , 1	FLT	\$9,000.00	4	\$36,000	4	\$36,000	4	\$36,000
30	install new stair tread / nosing cover	EA	\$450.00	•	#0.500	88	\$39,600	88	\$39,600
31	ŭ	OPEN LOC	\$1,250.00	2 2	\$2,500	2 2	\$2,500	2 2	\$2,500
33	Remove egress storefront and doors Add new egress storefront, doors, hold-open hardware	LOC	\$1,050.00 \$41,000.00	2	\$2,100 \$82,000	2	\$2,100 \$82,000	2	\$2,100 \$82,000
34		LOC	\$50,000.00	2	\$100,000	2	\$100,000	2	\$100,000
35	·	LOC	φ50,000.00	2	\$100,000 \$222,600	2	\$100,000 \$262,200	2	\$100,000 \$262,200
36	Egress otalis rotal				Ψ222,000		Ψ202,200		Ψ202,200
37	Door Hardware								
38		LEAF	\$900.00	13	\$11,700	13	\$11,700	13	\$11,700
39	toilet room	LEAF	\$850.00	6	\$5,100	6	\$5,100	6	\$5,100
40	office, admin	LEAF	\$900.00	6	\$5,400	6	\$5,400	6	\$5,400
41	back of house, support	LEAF	\$800.00	7	\$5,600	7	\$5,600	7	\$5,600
42	Door Hardware Total				\$27,800		\$27,800		\$27,800
43									
44									
45		RMS	\$3,000.00	6	\$18,000	6	\$18,000	6	\$18,000
	Remove tile flooring, patch concrete floor, install new tile flooring	SF	\$27.00	1,290	\$34,830	1,290	\$34,830	1,290	\$34,830
47	5/1 1	SF	\$2.00	5,800	\$11,600	5,800	\$11,600	5,800	\$11,600
48		FIX	\$7,350.00	25	\$183,750	25	\$183,750	25	\$183,750
	New urinal, privacy screen	FIX	\$6,250.00	14	\$87,500	14	\$87,500	14	\$87,500
	New vanity sink, soap dispenser, mirror	FIX	\$6,200.00	12	\$74,400	12	\$74,400	12	\$74,400
	New towel dispenser/waste receptacle	FIX	\$750.00	6	\$4,500	6	\$4,500	6	\$4,500
52		EA EA	\$3,150.00 \$9,000.00			6	\$18,900	6	\$54,000
	Replace unit ventilator unit Replace toilet exhaust	EA	\$3,500.00	6	\$21,000	6	\$21,000	6	\$34,000
	New single-user room in former egress vestibule; Kindergarten	RMS	\$3,300.00	0	φ21,000	O	φ21,000	1	\$21,000
56		RMS	\$26,000.00	1	\$26,000	2	\$52,000	2	\$52,000
57		RMS	\$12,000.00	1	\$12,000	_	ψ02,000	_	ψ02,000
58		RMS	\$8,000.00	3	\$24,000	3	\$24,000	3	\$24,000
59			φο,σσσ.σσ	•	\$497,580	•	\$530,480	•	\$586,580
60					,,		, ,		, ,
	Fire Protection								
62		GSF	\$5.50	21,950	\$120,725	21,950	\$120,725	21,950	\$120,725
63	Asbestos abatement at ceiling finish penetration	GSF	\$0.25	21,950	\$5,488	21,950	\$5,488	-	•
64	Asbestos abatement ceiling finish	SF	\$5.00					21,950	\$109,750
65	Patch ceiling, match existing	SF	\$1.50	21,950	\$32,925	21,950	\$32,925		
00	New soiling finish	O.E.	ΦE E0					24 050	¢420.725

SF

\$5.50

\$159,138

66 New ceiling finish

68

67 Fire Protection Total

\$120,725

\$351,200

21,950

\$159,138

SCHOOL BUILDING DIRECT TRADE COST DETAILS

				Ren	airs	Minor Re	enovation	Major Re	enovation
	ELEMENT	UNIT	UNIT RATE	Quantity	Cost	Quantity	Cost	Quantity	Cost
70 71 72	Plumbing Remove drinking fountain, install new vendor bubbler Remove drinking fountain, install new ADA drinking fountain/bottle filler Replace classroom sink; Kindergarten Plumbing Total	FIX FIX FIX	\$950.00 \$8,250.00 \$8,250.00	3	\$2,850 \$2,850	3	\$2,850 \$2,850	3 1	\$24,750 \$8,250 \$33,000
75 76 77 78	Low Voltage Electrical Systems Emergency and exit lighting Fire alarm; control panel, devices, cabling Security; rough-in conduit, backboxes Low Voltage Electrical Systems Total	GSF GSF GSF	\$0.50 \$3.25 \$1.10	21,950 21,950 21,950	\$10,975 \$71,338 \$24,145 \$106,458	21,950 21,950 21,950	\$10,975 \$71,338 \$24,145 \$106,458	21,950 21,950 21,950	\$10,975 \$71,338 \$24,145 \$106,458
82 83 84 85 86	ROOFING Roofing Replace membrane roofing Roofing Total	SF	\$25.00	7,050	\$176,250 \$176,250	7,050	\$176,250 \$176,250	7,050	\$176,250 \$176,250
87 88 89 90 91	INTERIOR CONSTRUCTION Flooring, Floor Finishes								
92 93	Abatement, replacement - qty provided Egress stair; terrazzo - no work Boiler room; etr	SF SF SF	\$35.00	100 1,065 830	\$3,500	1,065 830		1,065 830	
	replace metal stair Cover all floor finishes, excluding corridors, stairs, bathrooms Full abatement, replacement of flooring with new VCT	FLT SF SF	\$3,000.00 \$7.50 \$13.00			1 18,305	\$3,000 \$137,288	1 18,305	\$3,000 \$237,965
	Flooring, Floor Finishes Total	O.	Ψ10.00		\$3,500		\$140,288	10,000	\$240,965
101 102 103	Program Changes New student locker Overlay blackboard w/new whiteboard Modify soffit/window head to conceal piping; Lower Level	EA EA LF	\$450.00 \$5,000.00 \$100.00	220 11 100	\$99,000 \$55,000 \$10,000	220 11 100	\$99,000 \$55,000 \$10,000	220 11 100	\$99,000 \$55,000 \$10,000
104 105 106 107	Demo, new flooring, partitions, doors, paint convert Storage to Classroom new Support in Existing Classroom convert Play Room to Classroom	RMS RMS RMS	\$2,100.00 \$2,400.00 \$10,000.00	1 1 3	\$2,100 \$2,400 \$30,000	1 1 3	\$2,100 \$2,400 \$30,000	1 1 3	\$2,100 \$2,400 \$30,000
108 109 110	convert Supplies to Support convert Kitchen to Speech convert Meter Room to Psychology	RMS RMS RMS	\$500.00 \$2,250.00 \$5,000.00	1 1 1	\$500 \$2,250 \$5,000	1 1 1	\$500 \$2,250 \$5,000	1 1 1	\$500 \$2,250 \$5,000
111 112 113 114	convert single Toilet Room to Storage Program Changes Total	RMS	\$2,000.00		\$206,250	1	\$2,000 \$208,250	1	\$2,000 \$208,250
115 116	MECHANICAL AND ELECTRICAL SERVICES Mechanical System								
118 119 120 121	Boiler; existing to remain / do nothing existing to remain, add additional boiler for redundancy (qty 1) replace boiler, add additional boiler for redundancy (qty 2) Replace compressor	UNIT UNIT LS UNIT	\$55,000.00 \$100,000.00 \$10,000.00	1		1	\$55,000	1	\$100,000 \$10,000
123 124 125 126	Under-window room unit; existing to remain recondition unit in place replace unit, new pneumatic control Replace roof fan Subcontractor Trade burdens and markups	UNIT UNIT UNIT UNIT	\$3,150.00 \$9,000.00 \$5,000.00 5%	9	\$20,000 \$1,000	9	\$28,350 \$20,000 \$5,200	9 4	\$81,000 \$20,000 \$10,600
127 128	Mechanical System Total				\$21,000		\$108,550		\$221,600



SCHOOL BUILDING DIRECT TRADE COST DETAILS

Wellesley School District
St Paul's School Building

	ELEMENT UN	UNIT	UNIT RATE	Repairs		Repairs		Minor Re	novation	Major Re	enovation
	ELEMENT	UNIT	UNITRATE	Quantity	Cost	Quantity	Cost	Quantity	Cost		
129	Electrical System										
130	Demo, make safe	GSF	\$0.65			21,950	\$14,268	21,950	\$14,268		
131	Gear, distribution, equipment wiring	GSF	\$10.00			21,950	\$219,500	21,950	\$219,500		
132	Lighting and controls	GSF	\$7.00					21,950	\$153,650		
133	Power and branch devices	GSF	\$6.50			21,950	\$142,675	21,950	\$142,675		
134	Public address/Master Clock	GSF	\$1.15	21,950	\$25,243	21,950	\$25,243	21,950	\$25,243		
135	Tele/data/CATV; rough-in cable tray, conduit, backboxes	GSF	\$2.25	21,950	\$49,388	21,950	\$49,388	21,950	\$49,388		
136	Temporary lighting and power (GC/PR)	GSF	\$0.50	21,950	\$10,975	21,950	\$10,975	21,950	\$10,975		
137	Subcontractor Trade burdens and markups		2%		\$1,800		\$9,300		\$12,400		
138	Electrical System Total				\$87,405		\$471,348		\$628,098		
139											
140											
141											



PARISH HALL DIRECT TRADE COST DETAILS

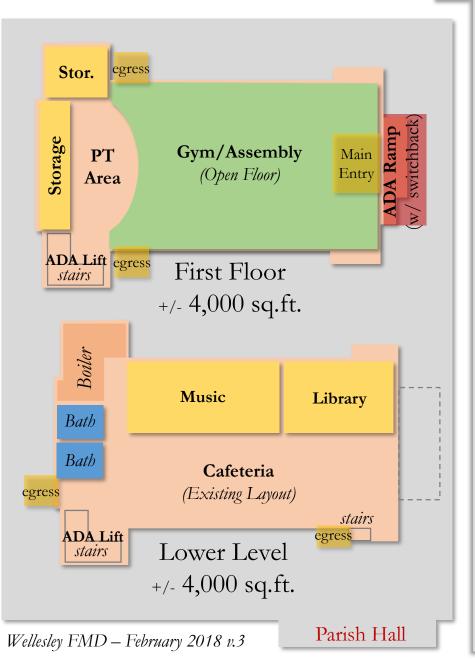
Wellesley School District Parish Hall

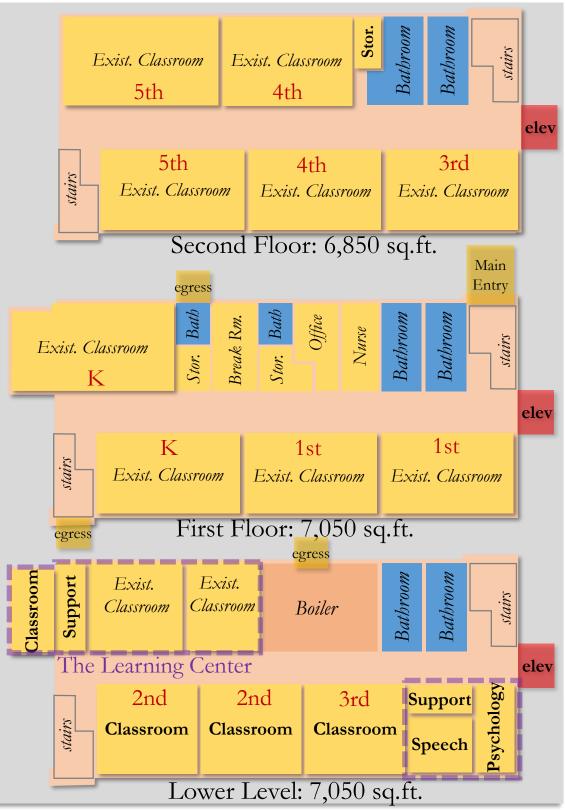
	ELEMENT	QUANTITY	UNIT	UNIT RATE	TOTAL
8	Main Entry		0.0=		*
9	Add new ramp w/switchback	300	GSF	\$75.00	\$22,500
10	Main Entry Total				\$22,500
11 12	Egress Stairs				
13	Demo wood framed stair	1	FLT	\$1,500.00	\$1,500
14	upper landing	75	GSF	\$15.00	\$1,125
15	New lift, platform, enclosure	1	LS	\$40,000.00	\$40,000
16	Rebuild egress stair around new lift	1	FLT	\$5,000.00	\$5,000
17	Power, heating ventilation	1	LS	\$15,000.00	\$15,000
18	Egress Stairs Total				\$62,625
19					
20	Door Hardware	_			.
21	Replace toilet room door hardware w/lever set	2	LEAF	\$850.00	\$1,700
22	office, admin	6	LEAF	\$900.00	\$5,400 \$6,400
23 24	back of house, support Door Hardware Total	8	LEAF	\$800.00	\$6,400 \$13,500
25	DOOI Haidware Total				\$13,300
26	Toilet Rooms				
27	Gut demo partitions, fixtures, accessories	2	RMS	\$2,000.00	\$4,000
28	Remove tile flooring, patch concrete floor, install new tile flooring	235	SF	\$30.00	\$7,050
29	Patch walls and ceiling, prep and repaint	1,200	SF	\$2.00	\$2,400
30	New toilet fixture, accessories	2	FIX	\$6,100.00	\$12,200
31	New vanity sink, soap dispenser, mirror	2	FIX	\$6,200.00	\$12,400
32	New towel dispenser/waste receptacle	2	FIX	\$750.00	\$1,500
33	Add new venting, new heat pump	2	EA	\$6,000.00	\$12,000
34	Toilet Rooms Total				\$51,550
35	Dragram Changes				
36	Program Changes Convert Admin/Existing Classroom to Music and Library	2	RMS	\$10,000.00	\$20,000
38	Convert Lower Level to Cafeteria - allowance provided	1	AL	\$20,000.00	\$20,000
39	Lighting reconfiguration	4,000	GSF	\$5.00	\$20,000
40	Program Changes Total	1,000		*****	\$60,000
41					
42					
43	Direct Trade Cost Sub Total				\$210,175
44	Design and Pricing Contingency	25%			\$53,000
45	General Conditions, Project Requirements	10%			\$27,000
46	Fee	3.50%			\$10,000
47	Escalation from now to start of construction	9.10%			\$28,000
48				_	
49 50	Parish Hall Estimated Construction Cost Total				\$328,175
51	i ansii naii Estiliated Constituction Cost Total				φ320,173
				=	
52					

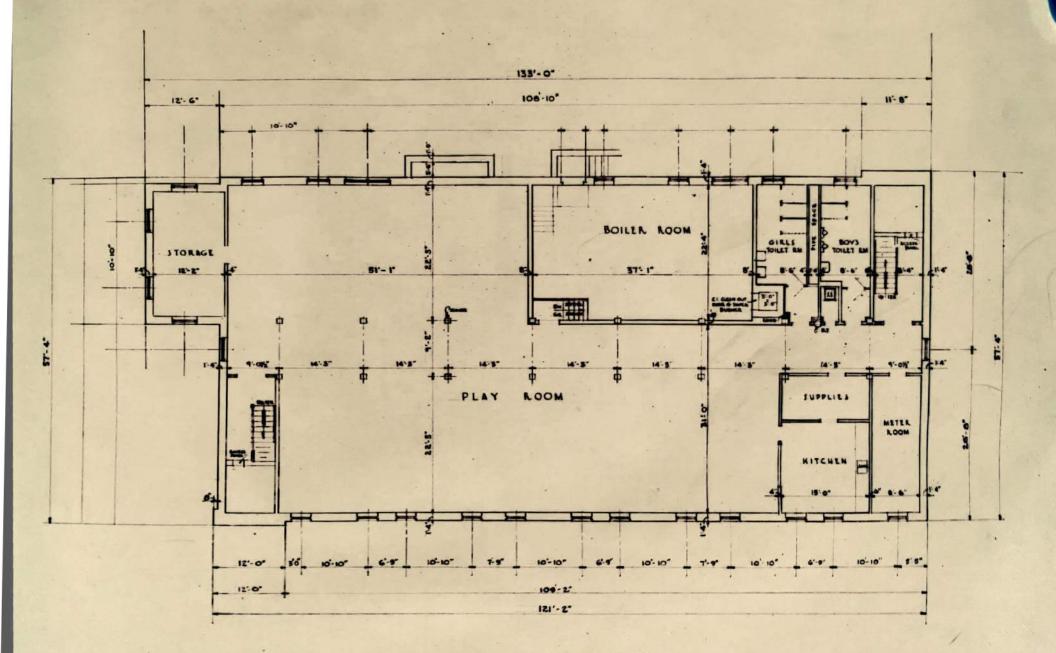
Swing Space Analysis

Saint Paul's School & Parish Hall 502 Washington Street

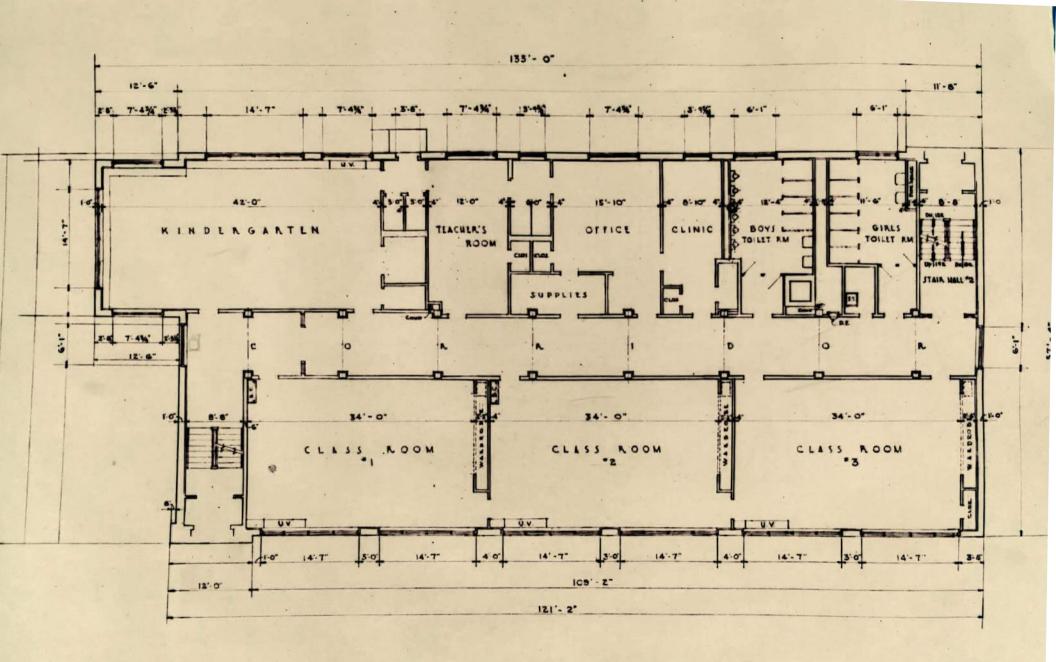
Main School



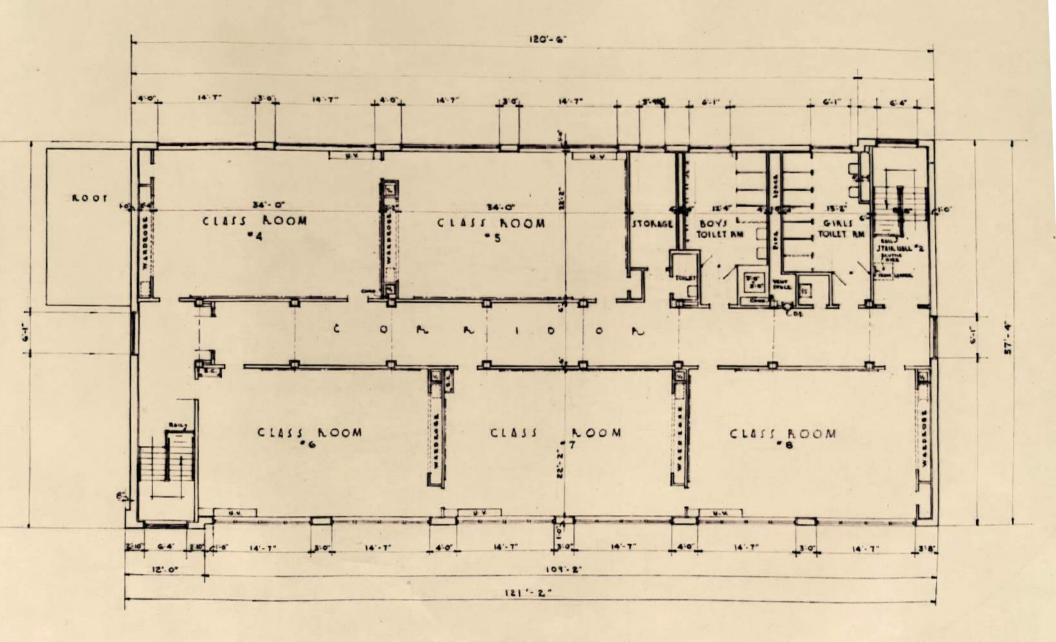




BASEMENT FLOOR PLAN .



PLAN OF FIRST FLOOR



PLAN OF SECOND FLOOR